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THE PATENTS AND OTHER ITEMS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

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SERIAL NO. ATTY, DOCKET NO. 17456-007069 APPLICANT: George P. Vlasuk et al. 09/498

FILING DATE: 2/4/2000 GROUP:

170	- Ale	<u> </u>	U.S. PA	TENT DOCUMENTS			
EXAMPLE T	HADE	DOCUMENT NUMBER	DATE	NAME	CLASS	SU8 CLASS	FILING DATE
My	AA	4,458,066	7/3/84	Caruthers, et al.	536	27	
1	AB	4,683,293	7/28/87	Craig	530	359	
1:	AC	4,745,051	5/17/88	Smith, et al.	435	. 68	
	AD	4,777,242	10/11/88	Nelles	530	351	
	AE	4,808,537	2/28/89	Stroman, et al.	435	6 .	:
	AF	4,812,405	3/14/89	Lair, et al.	435	255	
	AG	4,818,700	4/4/89	Cregg, et al.	435	252.33	:
·	AH	4,837,148	6/6/89	Cregg	435	172.3	
	AI	4,855,231	8/8/89	Stroman, et al.	435	68	
	AJ	4,857,467	8/15/89	Sreekrishna, et al.	435	255	
	AK	4,879,231	11/7/89	Stroman, et al.	435	172.3	÷
	AL	4,882,279	11/21/89	Cregg	435	172.3	
	AM	4,885,242	12/5/89	Cregg, et al.	435	68	
	AN	4,895,800	1/23/90	Tschopp, et al.	435	69.3	
	AO	5,002,876	3/26/91	Sreekrishma, et al.	435	69.5	
	AP	5,004,688	4/2/91	Craig, et al.	435	69.3	
	AQ	5,023,236	6/11/91	Edgington, et al.	514	18	
	AR	5,032,516	6/16/91	Cregg	435	172.3	
	AS	5,106,833	4/21/92	Broze, et al.	514	12	
	AT	5,122,465	6/16/92	Cregg, et al.	435	172.3	
	AU	5,135,868	8/4/92	Cregg	435	255	
	AV	5,166,329	11/24/92	Cregg	536	27	
	AW	5,189,019	2/23/93	Palladino et al.	514	12	
	AX	5,204,261	4/20/93	Prevatt, et al.	435	255	
	AY	5,239,058	8/24/93	Vlasuk, et al.	530	524	
	AZ	5,239,059	8/24/93	Zasloff, et al.	530	325	
	ВА	5,268,273	12/7/93	Buckholz	435	69.1	
	вв	5,330,901	7/19/94	Prevatt, et al.	435	69.6	'
	ВС	5,427,937	6/27/95	Cappello, et al.	435	212	
1	BD	5,525,477	6/11/96	Hassouna	435	13	
Mu	BE	5,605,671	2/25/97	Lyle, et al.	424	1.41	
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				PATENT DOCUMENTS	1		TRANSL	MOITA
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	YES	NO
MW	BF	0,419,099	3/27/91	EPO (Vlasuk, et al.)	_	(	_	
1	BG	0,454,372	10/30/91	EPO (Palladino, et al.)	_	1		
	вн	0,439,442	7/31/91	EPO (Girard, et al.)	,			
	BI	0,255,771	2/10/88	EPO ( Wydro, et al.)	_	٦.		
	ВЈ	91/02753	3/7/91	WO/PCT (Rasmussen)	·	_	:	
	вк	96/04377	2/15/97	WO/PCT (Innis)		_	:	
	BL	96/04378	2/15/96	WO/PCT (Innis)	_	-		
	ВМ	94/25000	4/29/94	WO/PCT (Cappello et al.)	_	_		·
	BN	88/09811	12/15/88	WO/PCT (Nexo et al.)	_	_		
71	во	96/12021	4/25/96	WO/PCT (Vlasuk et al.)	_	_		
M	BP	95/12615	5/11/95	WO/PCT (Pritchard)	_			

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
M		BQ	Aoki, Y., et al., "Effects of Recombinant Human Soluble Thrombomodulin (rhs-TM) on a Rat Model of Disseminated Intravascular Coagulation with Decreased Levels of Plasma Antithrombin" Thrombosis and Hemostasis 71(4):452-455 (1994)			
		BR	Babin et al., "The Isoinhibitors of Chymotrypsin/Elastase from Ascaris lumbricoides: The Primary Structure" Arch. of Biochem. and Biophy. 232(1):143-161 (1984)			
		BS	Beaucage et al., "Deoxynucleoside Phosphoramidites-A New Class of Key Intermediates for Deoxypolynucleotide Synthesis" <u>Tetrahedron Letters</u> , 22(20):1859-1862 (1981)			
		вт	Bernard, et al., "The Serine Protease Inhibitor Family from Ascaris Suum: Chemical Determination of the Five Disulfide Bridges" <u>Arch, Biochem, Biophys.</u> , 303(2):367-376 (1993)			
		BU	Bock, P.E. et al. "Isolation of Human Coagulation a-Factor X <sub>2</sub> by Soybean Trypsin Inhibitor-Sepharose Chromatography and Its Active-Site Titration with Fluorescein Monop-guanidinobenzoate" <u>Archives of Biochem. Biophys.</u> 273(2):375-388 (1989)			
			Bolivar et al., "Construction and Characterization of New Cloning Vehicles" Gene, 2:95-113 (1977)			
	$\prod$	BW	Broach, J. et al., "Transformation in Yeast: Development of a Hybrid Cloning Vector and Isolation of the CAN1 Gene" <u>Gene</u> , 8:121-133 (1978)			
	$\prod$	вх	Brown, E. et al., "Chemical Synthesis and Cloning of a Tyrosine tRNA Gene" Methods in Enzymology, 68, 109-151 (1979)			
		BY	Builock et al., "XL1-Blue: A High Efficiency Plasmid Transforming recA Escherichia coli Strain with Beta-Galactosidase Selection" <u>Biotechniques</u> 5(4):376-379 (1987)			
M		BZ	Cairns et al., "Antithrombotic Agents in Coronary Artery Disease" Chest 102:456S-481S (1992)			

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( THYPE		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
Mw:	CA	Crameri et al., "Display of Biologically Active Proteins on the Surface of Filamentous Phages: a cDNA Cloning System for Selection of Functional Gene Products Linked to the Genetic Information Responsible for their Production" Gene, 137:69-75 (1993)
	СВ	Cappello et al., "Ancylostoma Factor Xa Inhibitor: Partial Purification and Its Identification as a Major Hookworm-Derived Anticoagulant In Vitro" <u>J. Infect. Diseases</u> , 167:1474-1477 (1993)
: \	CC	Cappello et al., "Ancylostoma caninum anticoagulant peptide: A hookworm-derived Inhibitor of Human Coagulation Factor Xa," Proc. Natl. Acad Sci. U.S.A. 92:6152-6156 (1995)
	CD	Carroll et al., "The Anticoagulant Effects of the Hookworm, Ancylostoma Ceylanicum: Observations on Human and Dog Blood In Vitro and Infected Dogs In Vivo" Thromb. Haemostas. (Stuttgart), 51(2):222-227 (1984)
	CE	Carson, "Computerized Analysis of Enzyme Cascade Reactions Using Continuous Rate Data Obtained with an ELISA Reader" Comput. Prog. Biomed 19:151-157 (1985)
	CF	Clements et al., "Secretion of Human Epidermal Growth Factor from Saccharomyces Cerevisiae Using Synthetic Leader Sequences" Gene 106:267-272 (1991)
	CG	Cohen, "Nonchromosomal Antibiotic Resistance in Bacteria: Genetic Transformation of Escherichia coli by R-Factor DNA <u>Proc. Natl. Acad. Sci. USA</u> , 69(8):2110-2114 (1972)
	СН	Crawford, et al., "Inhibition of Human Blood Clotting By Extracts of Ascaris Suum" <u>J.</u> Parasitol., 68(6):1044-1047 (1982)
	CI	Curtis, Biology Fourth ed. N.Y. Worth Publishers, Inc. pp.500-501 (1983)
	CJ	Depicker et al., "Nopaline Synthase: Transcript Mapping and DNA Sequence" <u>J. Mol. Appl. Gen.,</u> 1(6):561- 573 (1978)
	ск	Despreaux et al., "The dac A Gene of Bacillus Stearothermophilus Coding for D-Alanine Carboxypeptidase: Cloning, Structure and Expression in Escherichia Coli and Pichia Pastoris" Gene 131:35-41 (1993)
	CL	Fiers, et al., "Complete Nucleotide Sequence of SV40 DNA" Nature, 273:113-120 (1978)
	СМ	Fuster, V. 'The Pathogenesis of Coronary Artery Disease and the Acute Coronary Syndromes New Engl. J. Med. 326(5):310-318 (1992)
	СИ	Glaser-Wuttke, G., "Pore-Forming Properties of the Adsorption protein of Filamentous Phage fd" <u>Biochem</u> , <u>Biophys</u> , <u>Acta</u> , 985:239-247 (1989)
	СО	Glover, "Gene Cloning: The Mechanics of DNA Manipulation" 1-20 (1984)
	CP	Goeddel et al., "Synthesis of Human Fibroblast Interferon by E.Coli" <u>Nucleic Acids Res.</u> , 8(18):4057-4074 (1980)
	··co	Gold et al., "Evidence for a Rebound Coagulation Phenomenon After Cessation of a 4-hour Infusion of a Specific Thrombin Inhibitor in Patients with Unstable Angina Pectoris" JACC 21(5):1039-1047 (1993)
	CR	Grasberger et al., "High-Resolution Structure of Ascaris Trypsin Inhibitor in Solution: Direct Evidence for a pH-induced Conformational Transition in the Reactive Site" <a href="Structure">Structure</a> , 2:669-678 (1994)
1_1	ÇS	Hemker et al., "Feedback Mechanisms in Coagulation" Hemostasis 21:189-196 (1991)
	CT	Hirsh, J., "Heparin" N. Engl. J.Med 324(22):1565-1574 (1992)
M	cυ	Hitzeman et al., "Isolation and Characterization of the Yeast 3-Phosphoglycerokinase Gene (PGK) by an Immunological Screening Technique" <u>J. Biol. Chem.</u> , 255(24):12073-12080 (1980)

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4		The	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
1	e mari	CV	255(5). 1565 1565 (1561)
		cw	Houghlen, "General Method for the Rapid Solid-Phase Synthesis of Large Numbers of Peptides: Specificity of Antigen-Antibody Interaction at the level of Individual Amino Acids" Proc. Natl. Acad. Sci., 82:5131-5135 (1985)
	(	CX	Hsiao, C.L. et al.,. "High-Frequency Transformation of Yeast by Plasmids Containing the Cloned Yeast ARG4 Gene" <a href="Proc.Natl. Acad. Sci. USA 76(8):3829-3833">Proc.Natl. Acad. Sci. USA 76(8):3829-3833</a> (1979)
	C	CY	Huang et al., "The Molecular Structure of the Complex of the Complex of Ascaris Chymotrypsin/Elastase Inhibitor with Porcine Elastase" Structure 2:679-689 (1994)
		z	Itakura et al., "Expression in Escherichia Coli of a Chmically Synthesized Gene for the Hormone Somatostatin" Science 198:1056-1063 (1977)
	[	)A	Kasten, B.L., "Specimen Collection", <u>Laboratory Test Handbook</u> , 2nd Edition, Lexi-Comp Inc., Cleveland pp. 16-17 (Edits. Jacobs, D.S. et al. 1990)
		В	Kessler, C. 'The Pharmacology of Aspirin, Heparin, Coumarin and Thrombolytic Agents' Chest 99:975-112S (1991)
	٥	c	Kurz, K.D., et al., "Rat Model of Arterial Thrombosis Induced by Ferric Chloride" <u>Thromb.</u> Res. 60:269-280 (1990)
	D	Q	Lawson et al., "A Model for the Tissue Factor Pathway to Thrombin" J. Biol. Chem. 269(37):23357-23366 (1994)
	D	E	Levine et al., "Hemorrhagic Complications of Anticoagulant Treatment" Chest 102:352S-363S (1992)
	D	"	Lidon et al., "Initial Experience with Direct Antithrombin Hirulog, in Unstable Angina" <u>Circulation</u> 88(4):1495-1501 (1993)
	D	١	Loeb et al., "The Presence of a Substance Inhibiting the Coagulation of the Blood in Ancylostoma" Proc. Pathol, Soc.of Philadelphia, 7(6):173-178 (1904)
	D	н	Lucchesi et al., "Prevention of Thrombosis and Rethrombosis and Enhancement of the Thrombolytic Actions of Recombinant Tissue-Type Plasminogen Activator in the Canine Heart by DMP728, A Glycoprotein lib/Illa Antagonist" <a (1982)<="" 254-255="" a="" cloning:="" cold="" harbor="" href="https://example.com/Brit.c&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;)1&lt;/td&gt;&lt;td&gt;Maniatis et al., " laboratory="" manual"="" molecular="" p.="" press="" spring="" td=""></a>
	. 0	٠	Mann et al., "Surface-Dependant Hemostasis" Sem, Hematology 29(3):213-226 (1992)
	D	., [	Mann et al., "Blood" Journal of The American Society of Hematology 76(1):1-16 (1990)
	D	٠ ا	Merrifield, "Solid Phase Peptide Synthesis. I, The Synthesis of a Tetrapeptide" <u>J. Amer.</u> Chem. Soc. 85:2149-2154 (1963)
	DI	V'	Messing et al., " A System for Shotgun DNA Sequencing" <u>Nucleic Acids Res</u> . 9(2): 309- 321 (1981)
	DI	יין יי	Methods of Enzymology, 65:499-560 (1980)
	D	ا ۲	Mizushima et al., "pEF-BOS, A Powerful Mammalian Expression Vector" <u>Nucl. Acids</u> Res., 18(17):5322 (1990)
	D	P   1	Morrison et al., "The Behavior and Significance of Slow-Binding Enzyme Inhibitors" <u>C.T.</u> Adv. Enzymol. 61:201-301 (1988)
M			Maruyama et al., "Lambda foo: a phage vector for the expression of foreign proteins" Proc. Nat'l. Acad, Sci., USA 91:8273-8277 (1994)

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	Mi	DR	Narang et al., "Improved Phosphotriester Method for the Synthesis of Gene Fragments"  Methods in Enzymol 68:90-109 (1979)										
	1	DS	Intravascular Coagulation" Thrombosis and Hemostasis 67(3):366-370 (1992)										
		DT	Nutt et al., "The Amino Acid Sequence of Antistasin" J. Biol. Chem, 263(21):10162-10167 (1988)										
		DU	Oklahoma Medical Research Foundation, "Thrombin-binding polypeptides as antithrombotic agent for artificial organs or other surfaces" Chemical Abstracts: 113:18 abstract No. 158738 (1990)										
Γ		DV	"Principles and Applications for DNA Amplification" PCR Technology (1989) (complete volume)										
		DW	Pritchard D., *The Anti-haemostatic Strategies of the Human Hookworm Necator Americanus* Thromb, Haemost. 73(3):546 (1995)										
	1: 1	DX	"The Source for Discovery " <u>Protocols and Applications Guide 3rd ed</u> . Promega Corp. USA (1996) (complete volume)										
		DY	Rappaport, S., "Initiation and Regulation of Tissue Factor-Dependent Blood Coagulation"  Arteriosclerosis and Thrombosis 12(10):1111-1121 (1992)										
	1.	DZ	Roberts et al., "Directed Evolution of a Potent Neutrophil Elastase Inhibitors Displayed on M13 Fusion Phage "Proc. Nat'l. Acad. Sci., USA 89:2429-2433 (1992)										
		EA	Ruf et al., "Mutational Analysis of Receptor and Cofactor Function of Tissue Factor"  Methods in Enzymol, 222, 209-224 (1993)										
		EB	Salvensen et al., "Proteinase Inhibitors: a-Macroglobulins, Serpins and Kunins", <u>Hernostasis and Thrombosis Third ed</u> . 251-253 (1994) J.B. Lippincott Comp.										
		EC	Sambrook et al., "Molecular Cloning, A Laboratory Manual", Second Edition, Volumes 1 to 3, Cold Spring Harbor Laboratory Press (1989)										
		ED	Sanger et al., "DNA Sequencing with Chain-Terminating Inhibitors" Proc. Natl. Acad. Sci. USA, 74(12):5463-5467 (1977)										
		EE	Sharma et al., "Usefulness and Tolerability of Hirulog, a Direct Thrombin-Inhibitor, in Unstable Angina Pectoris" Am. J.of Cardiol. 72:1357-1360 (1993)										
		EF	Shaw et al., "A General Method for the Transfer of Cloned Genes to Plant Cells" Gene, 23:15-330 (1983)										
		EG	Shimatake et al., "Purified Regulatory Protein cll Positively Activates Promoters for Lysogenic Development" Nature, 292:128-132 (1981)										
		EH	Shulman et al., "Platelet Dynamics" <u>Hemostasis and Thrombosis: Basic Principles and Clinical Practice</u> 251-253 (1982) J.B. Lippincott Comp.										
		ΕI	Sikela et al., "Screening an Expression Library with a Ligand Probe: Isolation and Sequence of a cDNA Corresponding to a Brain Calmodulin-Binding Protein" Proc. Nat'l. Acad. Sci., USA 84:3038-3042 (1987).										
		EJ	Smith et al., "Libraries of Peptides and Proteins Displayed on Filamentous Phage" <u>Methods of Enzomol. 217</u> , 228-257 (1993)										
		EK	Soumillion et al., *Selection of -lactamase on Filamentous Bacteriophage by Catalytic Activity* <u>J. Mol. Biol</u> . 237:415-422 (1994)										
11	1/2	EL	Spellman et al., "Anticoagulant Activity of Dog Hookworm" Am. J. Physiol. 220(4):922-927 (1971)										

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APPLICANT:
George P. Vlasuk et al.

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1	TRADE		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
	lh	EM	Stanssens et al., "Anticoagulant Repertoire of the Hookworm Ancylostoma Caninum" <u>Proc. Natl. Acad. Sci. U.S.A.</u> 93:2149-2154 (1996)
	7/2	EN	Taylor, "Identification of Protein Sequence Homology by Consensus Template Alignment" <u>J. Mol. Biol.</u> 188:233-258 (1986)
		EO	Tuszynski et al., "Isolation and Characterization of Antistatin" J. Biol, Chem, 262(20):9718-9723 (1987)
		EP	Van Solingen et al., "Fusion of Yeast Spheroplasts" J. Bacter, 130:946-947 (1977)
		EQ	Van Lenten et al., "Studies on the Chemical and Enzymatic Modification of Glycoproteins"  J. of Biol. Chem. 246(6):1889-1894 (1971)
		ER	Vieira et al., "Production of Single-Stranded Plasmid DNA" Methods in Enzymol. 153, 3-11 (1987)
		ES	Vlasuk, et al., "Structural and Functional Characterization of Tick Anticoagulant Peptide (TAP); A Potent and Selective Inhibitor of Blood Coagulation Factor Xa" Thromb. Haemostas. 70(1):212-216 (1993)
		ET	Vrijsen et al., "Resolution of the Major Poliovirus Polypeptides into Doublets" <u>Virology,</u> 86:546-555 (1978)
		EU	Waxman et al., "Tick Anticoagulant Peptide (TAP) Is a Novel Inhibitor of Blood Coagulation Factor Xa" Science 248:593-596 (1990)
		E۷	Weitz et al., * New Anticoagulant Strategies" J. Lab. Clin. Med. 122(4):364-373 (1993)
		EW	Zell et al., *DNA Mismatch -Repair in Escherichia Coli Counteracting the Hydrolytic Deamination of 5-Methyl-Cytosine Residues* Embo J., 6(6):1809-1815 (1987)
Γ		EX	Hotez and Pritchard, "Hookworm Infection", Sci.Am., June 1895, pp. 68-74
		EY	Cappello et al., "Ancytostoma caninum anticoagulant peptide: cloning by PCR and expression of soluble, active protein in E. coli", Molec. Biochem. Parasitol. 80:113-117 (1996)
		EZ	Jespers et al., "Surface Expression and Ligand-Based Selection of cDNAs Fused to Fileamentous Phage Gene VI", Bio/Technology 13:378-382 (1995)
		FA	Jock Friedly, "New Anticoagulant Promps Bad Blood Between Partner", <u>Science</u> 271:1800-1801 (1996)
		FB	May 10, 1996 letter from David Kabakoff to <u>Science</u> ; not published
		•	May 13, 1996 fax from Yale University to Corvas including letter (5/10/96) said to have been sent to <u>Science</u> ; not published
			July 16, 1996 e-mail from Science to Jean Ellis noting receipt of 5/10/96 Kabakoff letter
		· ~	September 17, 1996 e-mail from <u>Science</u> to Jean Ellis noting Science decision to not publish 5/10/96 Kabakoff letter
			September 26, 1996 letter from Randall Woods to <u>Science;</u> not published
	the	FG	April 21, 1995 letter from George Vlasuk to Thrombosis and Heamostasis: not published

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